

Page 1

Tuesday, June 28, 2011 9:58:58 AM Item ID: D3391-025 Accept Setup Start **Revision ID:** Stop Aft Tube Assembly Item Name: Start Date: 6/28/2011 Start Qty: 1.00 **Cust Item ID:** Required Date: 7/28/2011 **Req'd Qty:** 1.00 **Customer:** Reference: Run Start Date: 11-06-28 Tooling: Process Plan: MF Approvals: Date: Stop QC: Date: SPC (Y/N): Sequence ID/ Operation Tool ID Set Up/ Tool # Plan Accept Reject Reject Work Center ID' Description **Run Hours** Code Qty Qty Number Stamp Draw Nbr **Revision Nbr** D3391 Rev H/ DEO 0.00 MORI SEIKI ONC LATHE LARGE Mori Sciki 0.00 Memo Mori Seiki CNC Lathe Large Turn as per Folio FA599 \*\*\*scribe batch # on fwd end at 90 degree\*\*\* 110 QC2- Inspect parts off machine FAI/FAIB 0.00 ml u/06/29 · Memo Quality Control 0.00 111 QC8- Inspect parts - second check 416/29 Memo Quality Control

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Page 2

Tuesday, June 28, 2011 9:58:58 AM Item ID: D3391-025 Accept Setup Start **Revision ID:** Stop Aft Tube Assembly Item Name: **Start Date:** 6/28/2011 Start Qty: 1.00 **Cust Item ID: Req'd Qty:** 1.00 Required Date: 7/28/2011 **Customer:** Reference: Run Start Process Plan: Tooling: Date: Date: \_\_\_\_\_ Approvals: Stop Date: \_\_\_\_\_ QC: SPC (Y/N): Date: \_\_ Sequence ID/ Operation **Tool ID** Reject Set Up/ Tool # Plan Accept Reject Insp. **Work Center ID** Description **Run Hours** Code -Qty Qty Number Stamp 120 0.00 HAAS CNC VERTICAL MACHINING #1 HAAS 1 0.00 Memo 1-Machine as per Folio FA 599 Rev: AA & Dwg D3391 Rev: HAAS CNC vertical machine #1 2-Deburr 130 QC2- Inspect parts off machine FAI/FAIB 0.00 B.A 11/06/30 0.00 Memo Quality Control L1/06/30 140 QC8- Inspect parts - second check 0.00

Quality Control

0.00

Memo

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W/O:			WO	RK ORDER CHANG	ES					
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#### Work Order ID 71315

Page 3

Tuesday: June 28, 2011 9:58:58 AM

Item ID:

D3391-025

Accept

Setup Start



Stop

**Revision ID:** 

Item Name:

Required Date: 7/28/2011

Aft Tube Assembly

Start Date:

6/28/2011

OC:

Start Otv: 1.00

Req'd Oty: 1.00



Date:

**Cust Item ID:** 

Customer:

Reference:

Approvals:

Process Plan:

Date:

Tooling:

SPC (Y/N):

Date:

Date:

Run

Start

Sequence ID/ Work Center ID Operation Description Set Un/ **Run Hours**  Tool ID

Tool # Plan

Accept **Qty** 

Reject Reject Oty Number

Stop

Insp. Stamp

150

Skidtubes Skidtubes

Skidtubes

Memo

0.00

0.00

1-Drill (PILOT HOLE) aft cap holes per Dwg D3391 using DT8803

Code

160

CNC Bend 1

CNC Delta 100 Bender

BENDING MACHINE - SKIDTUBES

Memo

0.00

0.00

Form as per Dwg D3391 Using Bend Prog 3391025

170

Quality Control

QC5- Inspect part completeness to step on W/O

0.00

Memo

H-405"

0.00

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W/O:			WO	RK ORDER CHANG	ES				
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Page 4

Tuesday, June 28, 2011 9:58:58 AM

Item ID:

D3391-025

Revision ID:

Item Name:

Aft Tube Assembly

**Start Date:** 

6/28/2011

Start Oty: 1.00

Req'd Otv: 1.00



Accept



Run

Setup Start



Start

Stop



Required Date: 7/28/2011

**Cust Item ID: Customer:** 

Reference:

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Process Plan:

OC:

· Operation

Skidtubes

Description

Date: Date:

Tooling:

SPC (Y/N):

· Set Up/

**Run Hours** 

Tool ID

Date:

Date:

Tool # Plan Code

Accept **Qty** 

Reject Qty

Reject Insp. Number Stamp

Work Center ID 180

Sequence ID/

Skidtubes Skidtubes

Memo

0.00

0.00

1-Open Aft cap pilot hole to .208" as per Dwg D3391

2-Drill float bag holes using DT8809 as per Dwg D3391(Holes marked "A" Only.

3-Drill wearplate holes as per Dwg D3391 using DT8878(Mid Tube) & DT8217 Wearplate Jig .

\*\*\*\*\*Do Not Open To Finished Size\*\*\*\*

4-Drill Wearshoe holes as per DWG D3391 using DT8939 locating from 2 previously drilled aft wearplate holes.

5-Open wearplate holes to 0.250" and c'bore as per dwg D3391

6-Open up all wearshoe, wearplate to 0.297" and float bag holes to 0.328" as per Dwg D3391.

7-Deburr

Dart Aerospace L	.td
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#### Work Order ID 71315

\*Tuesday; June 28, 2011 9:58:58 AM



Page 5

Item ID:

D3391-025

Accept

Setup Start

**Revision ID:** 

Item Name:

Aft Tube Assembly

**Start Date:** 

6/28/2011

Start Qty: 1.00 Req'd Qty: 1.00

**Cust Item ID:** 

**Customer:** 

Reference:

**Approvals:** 

Process Plan:

Date:

Tooling:

Date:

Tool ID

Run

Start

Stop



Required Date: 7/28/2011

QC:

Date: \_\_\_\_\_

**SPC (Y/N):** 

Date:

Tool # Plan

Code

Accept Qty

Reject Qty

Stop

Reject Number Stamp

Insp.

Sequence ID/ Work Center ID

190

Quality Control

Operation Description

QC5- Inspect part completeness to step on W/O

Memo

Set Up/ **Run Hours** 

0.00



200

HandFinish Hand Finishing Chemical Conversion Coat per QSI005 4.1

Memo

210

Quality Control

QC3- Inspect Part Finish

Memo

0.00

0.00

W/O:			WC	RK ORDER CHANGE	S	*			
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#### Work Order ID 71315

Page 6

Tuesday: June 28, 2011 9:58:58 AM

Item ID:

D3391-025

Accept



Setup Start

Stop



Revision ID:

Item Name:

Aft Tube Assembly

**Start Date:** 

6/28/2011

Start Oty: 1.00

Req'd Oty: 1.00



**Cust Item ID:** 

**Customer:** 

Reference:

Approvals:

OC:

Process Plan: Date:

Operation

Description

0.00

0.00

Tooling:

Date:

Date:

Run

Start

Stop



Required Date: 7/28/2011

Date:

SPC (Y/N):

Set Up/

**Run Hours** 

Tool ID

Tool # Plan

Code

Accept Otv

Reject Reject Otv Number

Insp. Stamp

220

Sequence ID/

Work Center ID

Skidtubes

Skidtubes

Skidtubes

Memo

Instal spacers as per dwg D3391

A/R Magnabond 6398 Batch: Mll6677

exp. date: ///08

cure time 12hrs as per QSI0015

230

Quality Control

QC5- Inspect part completeness to step on W/O

Memo

HandFinish

Pressure Wash per QSI005 4.3

Memo

0.00

0.00

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235

Hand Finishing

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W/O:			WC	ORK ORDER CHANG	ES				
DATE	STEP	PRO	OCEDURE CHA	NGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
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Page 7

Tuesday, June 28, 2011 9:58:58 AM

Item ID:

D3391-025

Revision ID:

Item Name:

Aft Tube Assembly

**Start Date:** 

6/28/2011

Start Otv: 1.00

Required Date: 7/28/2011

Req'd Oty: 1.00

Operation

Description



**Cust Item ID:** 

**Customer:** 

Reference:

Approvals:

QC:

Process Plan:

Date: \_\_\_\_\_

Date: Tooling:

Accept

SPC (Y/N):

Set Up/

0.00

**Run Hours** 

Tool ID

Tool # Plan

Date:

Date:

Accept Code Qty

Reject Oty

Reject Number

Insp. Stamp

240

Work Center ID

Sequence ID/

Powdercoat

Powder Coating

250

Quality Control

START TIME: OVEN TEMPERATURE:

White Gloss(Ref:4.3.5.1) per OSI005 4.3-Alum

FINISH TIME:

OC3- Inspect Part Finish

Memo

0.00

0.00

0.00

0.00

260

HandFinish Hand Finishing HandFinishing

Memo

A-Install inserts as per Dwg D3391 2-Install Aft Cap as per Dwg D3391 A/R Sikaflex-241/-291 M(175/6

Sikaflex expiry date: 15/6/

Run

Start

Setup Start

Stop

Stop

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W/O:			W	ORK ORDER CHANG	GES			:		
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#### Work Order ID 71315

Tuesday, June 28, 2011 9:58:58 AM



Page 8

Item ID:

D3391-025

Accept

Setup Start



**Revision ID:** 

Item Name:

Aft Tube Assembly

**Start Date:** 

6/28/2011

Start Qty: 1.00

Required Date: 7/28/2011

Reg'd Qty: 1.00



Cust Item ID:

**Customer:** 

**Tool ID** 

Reference:

**Approvals:** 

QC:

Process Plan:

Operation

Date: \_\_\_\_\_

Date: \_\_\_\_\_\_ Tooling:

SPC (Y/N):

Date:

Date:

Tool # Plan

Code

Reject

Qty

Run

Start Stop

Stop



Sequence ID/ Work Center ID

270

**Quality Control** 

Memo

Memo

Description QC5- Inspect part completeness to step on W/O

Set Up/ **Run Hours** 0.00

Accept

Qty



Number Stamp

Insp.

Reject

280

Packaging

Packaging

Identify as per dwg & Stock Location: W 10

D412"742-013/B71317

290

Quality Control

QC21- Final Inspection - Work Order Release

0.00

Memo

0.00

0.00

11/7/695 MF 11-07-06

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W/O:			W	ORK ORDER CHANG	GES				
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## **Picklist Print**

Tuesday, June 28, 2011. 9:58:55 AM

Work Order ID: 71315

Parent Item:

D3391-025

Parent Item Name: Aft Tube Assembly



Start Date: 6/28/2011

Start Qty: 1.00

Required Date: 7/28/2011

Page 1

Required Qty: 1.00

Comments:

IPP Rev B 06-02-07

IPP rev D

IPP rev E

IPP Rev:C 06-03-28

07.03.20

07.11.07

ECN773 dwg rev. D EC

Update Manuf. Instructions JLM 🗆 🗆 🗆

revF dwg

EC

rev G dwg ecn 1053p EC verified by: DD

DD verified by: EC IPP Rev:F 07-11-13 ECN 1056

· <b>I</b>	PP Rev:G 08-09-	10 revH as per dv	wg DI	verified by:	EĆ								
Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
D6014-090  ALUMINUM EXTRUSION		Manufactured	No			100 SGS	Each 72	0.0000		1 2 gr,	mgn, L		1061.78
D3670-4-200		Manufactured	No			230	Each	38.0000	4	4			Sh.
·				Location LG	1	Loc	<u>Oty</u> 38	Loc Code					11/07/0
D2646		Manufactured	No	(	70822.	270	38 Each	74.0000	1	1	11/0	a\0 °	5
				Location FP004 FP006	<b>1</b> 68280	Loc	Oty 60 60 14	Loc Code	_ _ _		 		
D3537-1		Manufactured	No		62678	270	14 Each	41.0000	1	tl 1	- nlc	710	5

Wearpad

Location Loc Qty Loc Code FP017 41 69278 34 69817 7

W/O:		WORK ORDER CHANGES										
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Tuesday June 28 2011 9:58:55 AM

Tuesday, June 28, 2011 9:58:55 AM								
Work Order ID: 71315								
Parent Item: D3391-025	•							
Parent Item Name: Aft Tube Assembly		1 1 8 8 1 1 1 1 1 1 1 1 1	44 31/58 (1178 1818) 318) (1881) 48:1 <b>3</b> (1 <b>94</b> ) 8			Start Date: 6	5/28/2011	Required Date: 7/28/2011
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D3537-7	36 6	Nr.		250	Б. т.		.00	Required Qty. 1.00
Wearpad	Manufactured	No	ear Car	270	Each	4.0000 1	1 	1076/03
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D3553-1	Manufactured	No	,	270	Each	8.0000	1	
Gasket								1107/05
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D3553-3	Manufactured	No		270	Each	32.0000 1	1	
Gasket			,				_ <u>) el</u>	1107105
			<b>Location</b>	Lo	: Oty	Loc Code		
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D3672-1		3.1	5 <del>3480</del>	2.50	12		<u> </u>	
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Pricholic Washer			<u>Location</u>	Į.o.	c Qty	Loc Code		
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## **Picklist Print**

Page 3

Tuesday, June 28, 2011 9:58:55 AM

Work Order ID: 71315								
Parent Item: D3391-025					•			
Parent Item Name: Aft Tube Assen	nbly					•	: 6/28/2011	Required Date: 7/28/2011
						Start Qty	: 1.00	Required Qty: 1.00
ALS4-1032-130 	Purchased	No		260	Each	1,122.000 1	• •	107105
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ALS4-1032-225 	Purchased	No		270	Each	666.0000 1		1109105
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BOLT			<b>Location</b>	Loc	<u>Oty</u>	Loc Code		
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DATE	STEP	PRO	CEDURE CH	IANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
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Part No		PAR #:	Fault Ca	tegory:	NCR: Yes	No DO	QA:	Date: _	
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NCR:		W	ORK OR	DER NON-CONFORMA	NCE (NC	R)			
DATE	STEP	Description of NC	Initial	Corrective Action Section	on B		ication	Approval	Approval
		Section A	Chief Eng	Action Description Chief Eng	Date		tion C	Chief Eng	QC inspector
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#### **Picklist Print**

Tuesday, June 28, 2011 9:58:55 AM

Page 4

Work Order ID: 71315

Parent Item:

D3391-025

Parent Item Name: Aft Tube Assembly



Start Date: 6/28/2011

Required Date: 7/28/2011

Start Qty: 1.00

Required Oty: 1.00

AN3C5A

Bolt

Purchased

No

270

Each

1,385.000

<b>Location</b>	Loc Qty	Loc Code		
FP-A	7			
115835	7			
ST350	1378			
116419	28			·
116549	54			
117343	500			
117764	300			
,L1. <b>7</b> 872	496			<u> </u>
·	270 E	ach 0.0000	10	10

AN960C10L

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Purchased

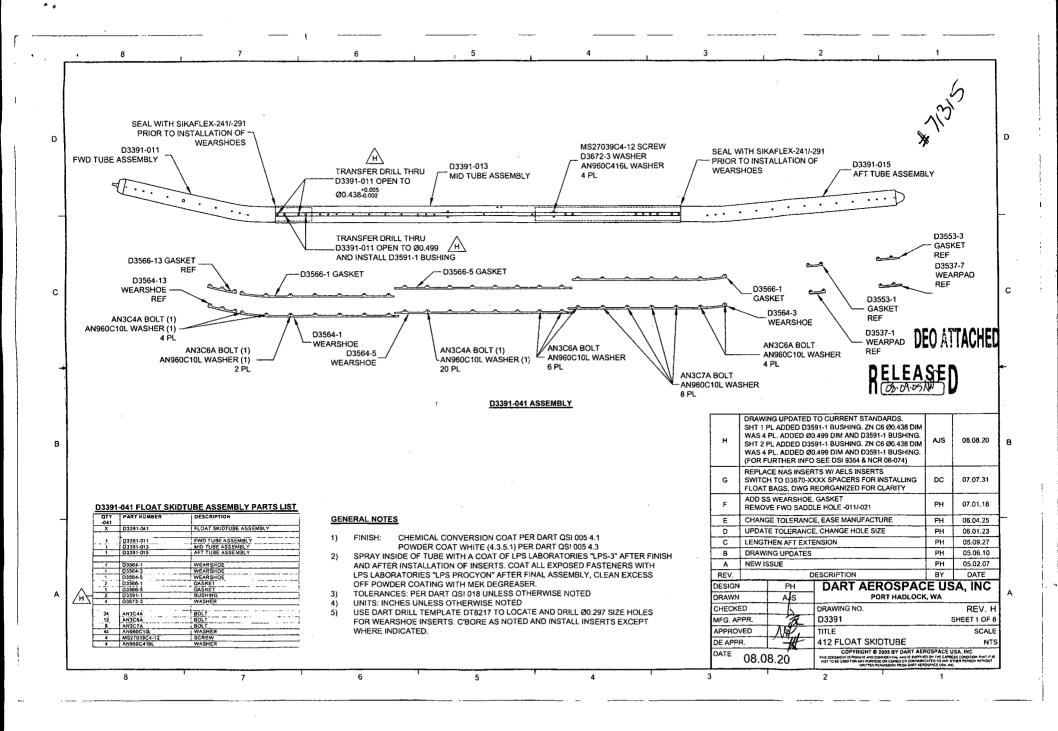
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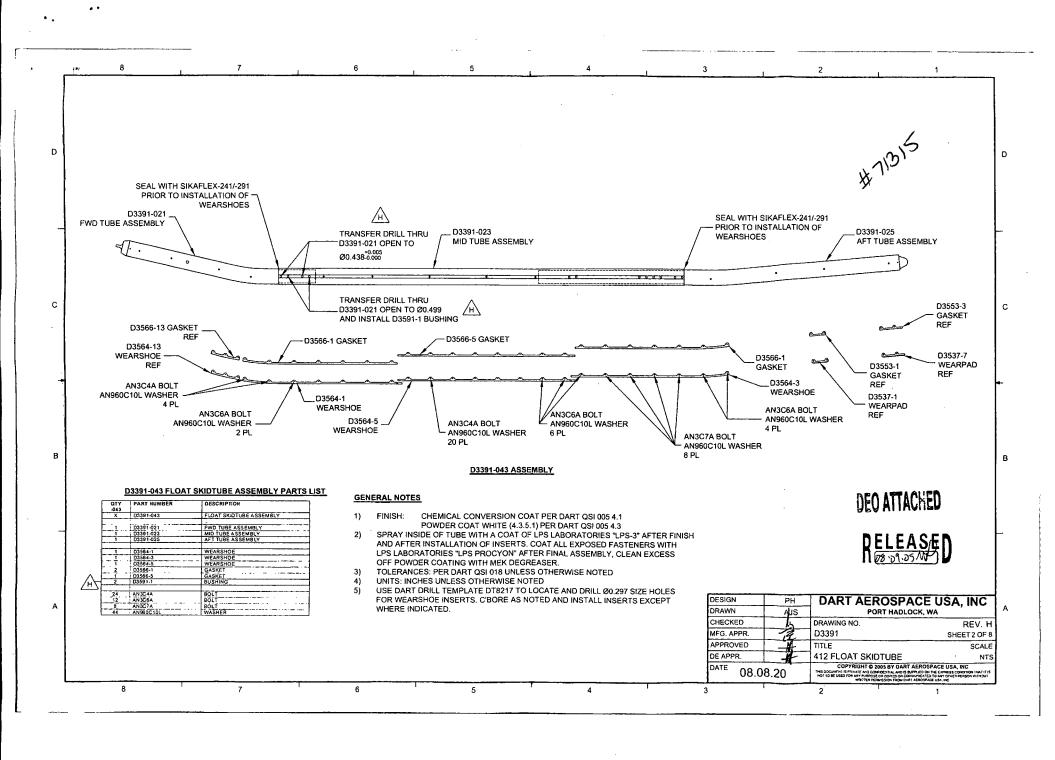
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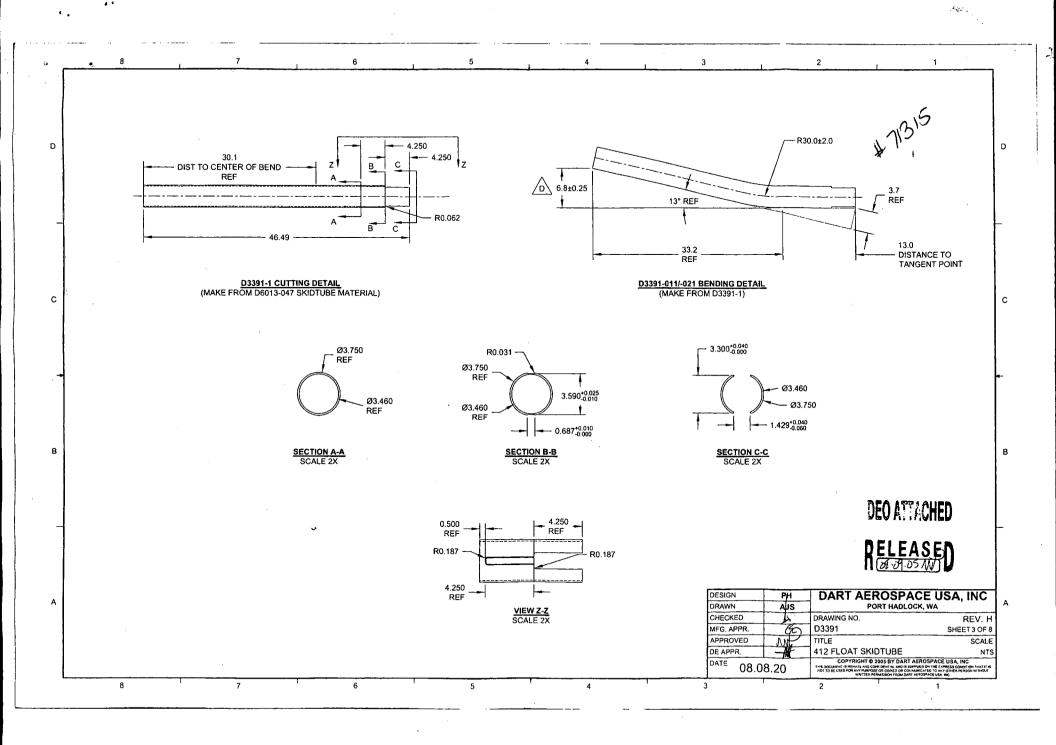
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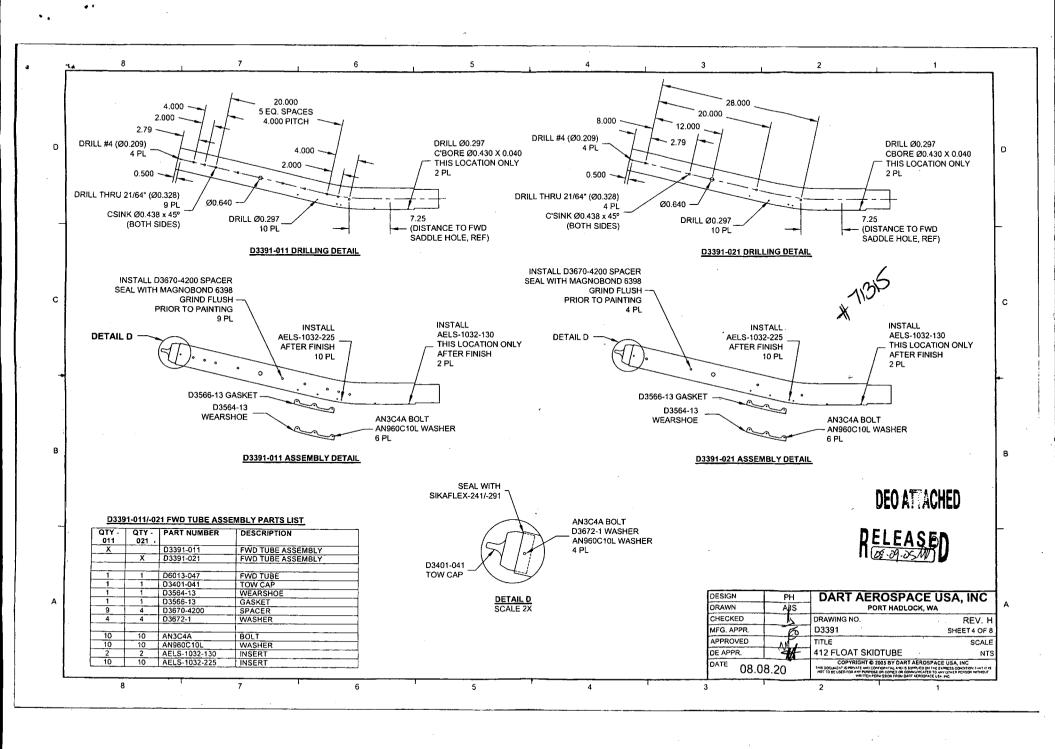
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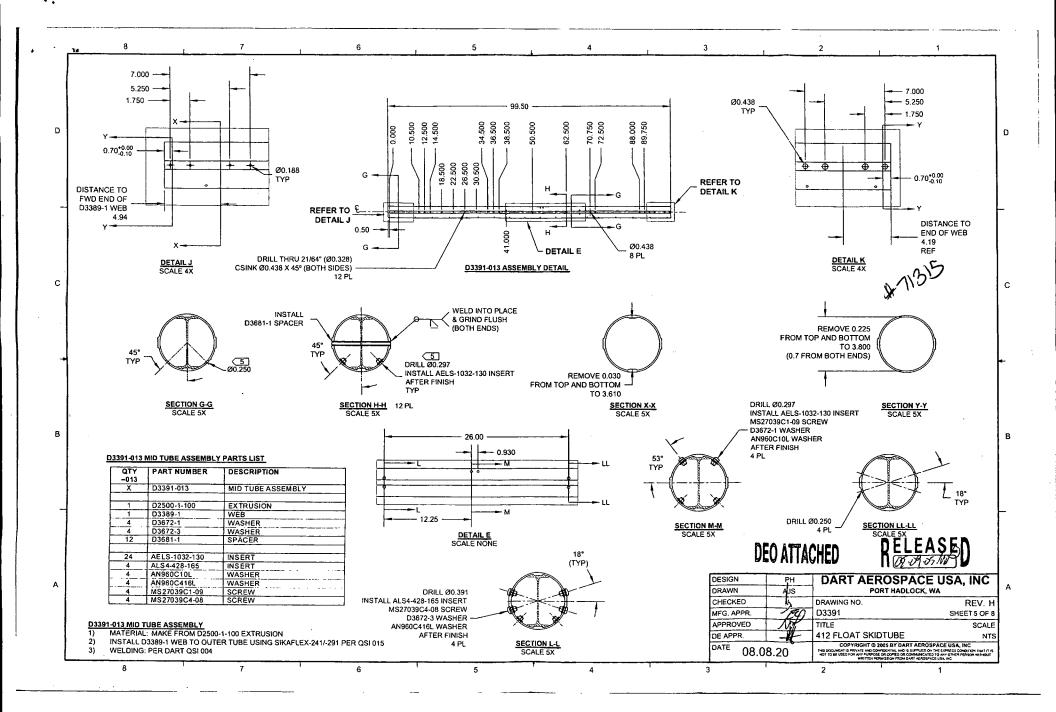
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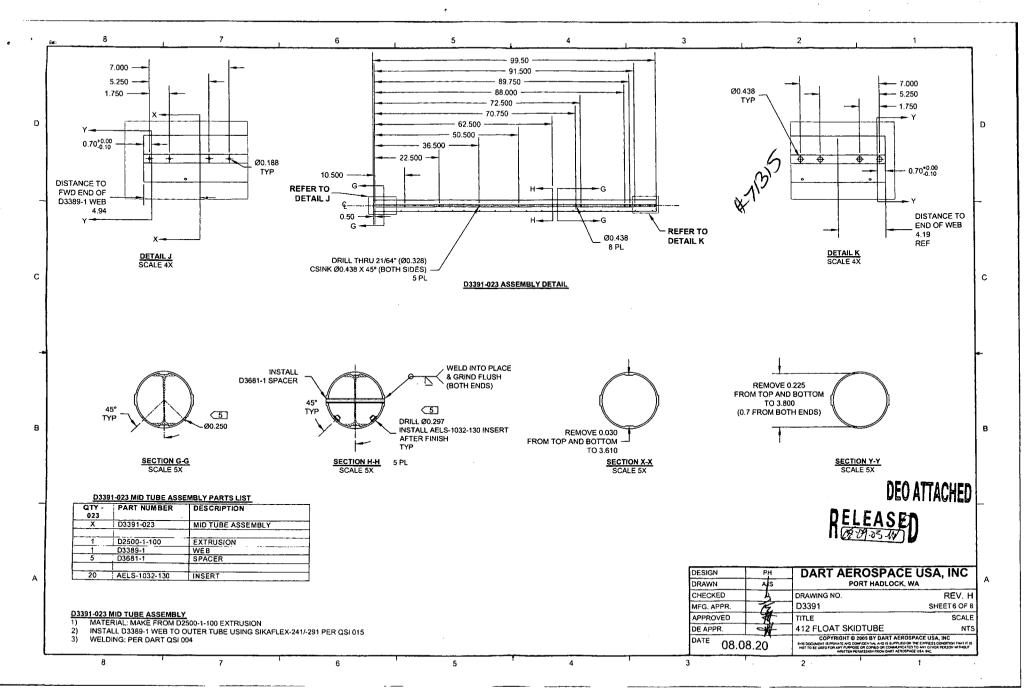
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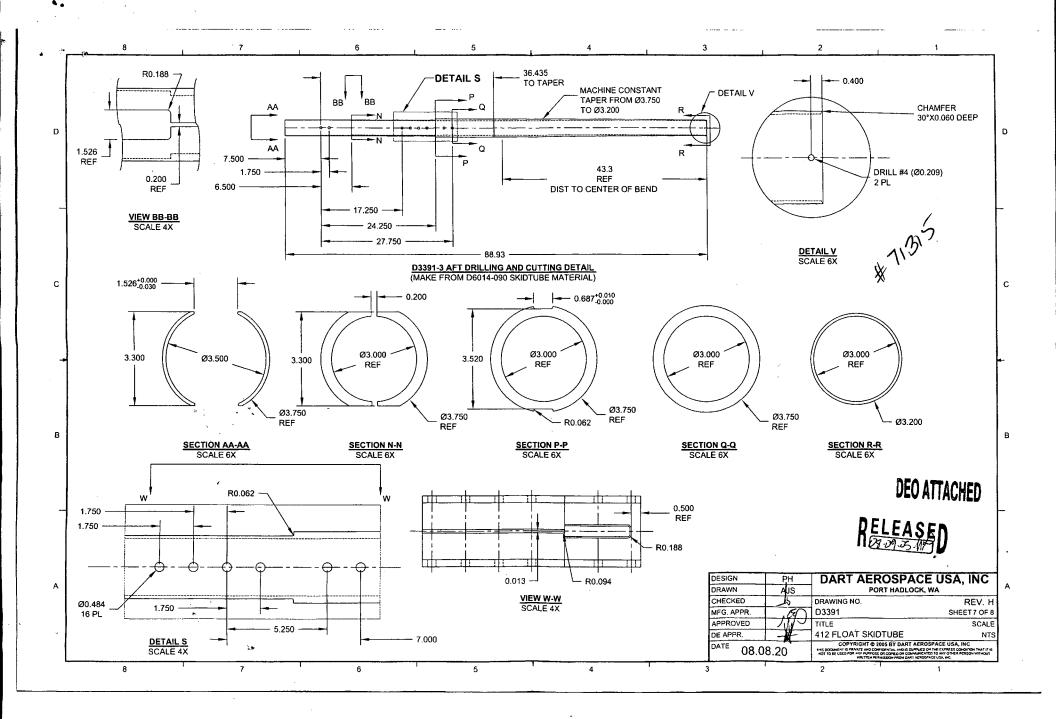


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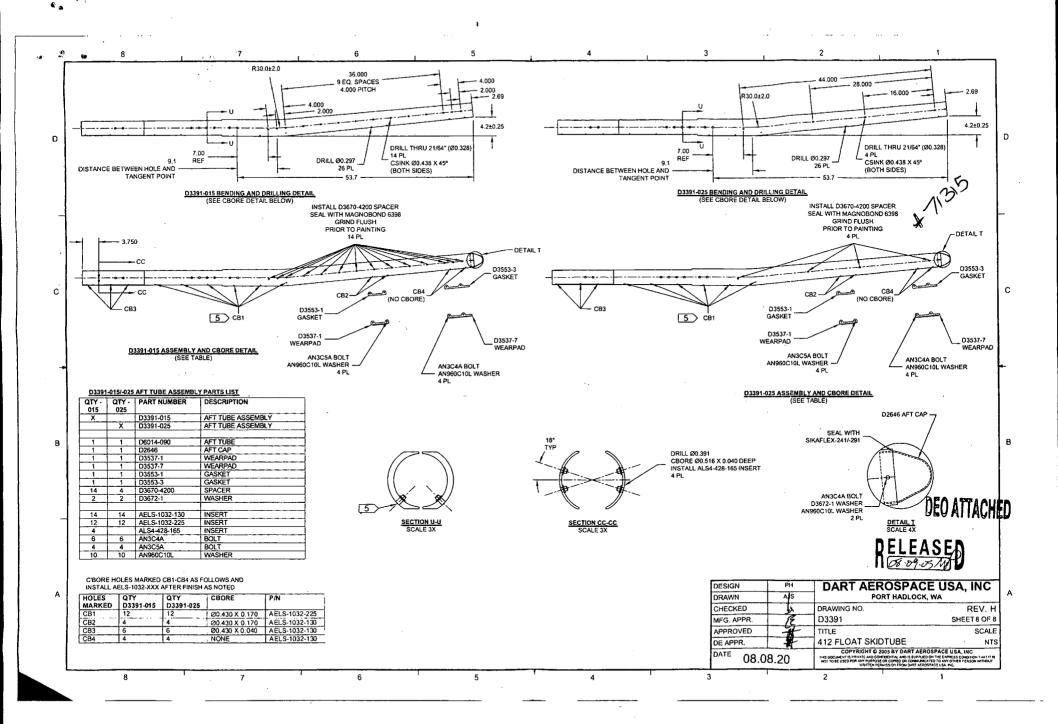


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DRAWING NO.	TITLE	RE'	/. H DART AERO	SPACE USA, INC	D.E.O. NO.	SHEET NO.	SCALE
D3391	412 FLOAT SK	KIDTUBE ,	ENGINEE	RING ORDER	D3391-H-1	SHEET 1 OF,1	NTS
DRAWN	(/) CI	HECKED (	MFG. APPR.	APP	ROVED MAD	DE APPR.	
DATE 09	09.23 DA	ATE 04.04.24	DATE OF	7/09/25 DAT	E 09/09/30	DATE 09/09/3	

#### **PURPOSE:**

LPS-3 IS NO LONGER USED DURING ASSEMBLY OF D3391-041/-043 SKIDTUBES.

#### **CHANGE:**

AMEND NOTE 2 OF D3391-041/-043 SKIDTUBE ASSEMBLIES (ZN A6-1, A6-2) AS FOLLOWS:

2) SPRAY INSIDE OF TUDE WITH A COAT OF LPS LABORATORIES "LPS-3" AFTER FINISH AND AFTER INSTALLATION OF INSERTS. COAT ALL EXPOSED FASTENERS WITH LPS LABORATORIES "LPS PROCYON" AFTER FINAL ASSEMBLY, CLEAN EXCESS OFF POWDER COATING WITH MEK DEGREASER.

DELEASED 2010 -02- 0 2

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DART AEROSPACE LTD	Work Order:	7/3/5
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Description: Float Skidtube (412)	Part Number:	/ D3391-
Inspection Dwg: D3391 Rev: H		Page 1 of

## FIRST ARTICLE INSPECTION CHECKLIST

Drawing Dimension	Tolerance	Actual Dimension	Accept	Reject	Method of Inspection	Comments
		Lat	he Sectio	n		
14.000	+/-0.010	14.000			tape	nnd-02
3.500	+/-0.010	3,502			vern	JF-01
88.93	+/-0.030	88.920	V		tape	MM. V-02
Ø3.200	+/-0.010	3.200	4		nine	CNC-05
88.93	+/-0.030	88.920 1	1		tape	MMV-DD-
Ø3.750	+/-0.010	3.746			Mirc	6NC-05
30° x 160" chamfer	+/-0.010	30° × 60"			very	JAOI

Measured by: | MM | Jome | Date: 11/06/29 | Date: 11/06/29

		HA	AS Section		
1.526	+0.000/-0.030	1.510	1	Vein	6A-01
7.500	+/-0.010	7.505	<b>/</b>	Veco	CNC-02
27.750	+/-0.010	27.750	<b>1</b>	TAPE	GA-12
31.750	+/-0.010	31.750	/	li	, et
35.250	+/-0.010	35.250	_	H	11
3.300	+/-0.010	3.302	~	Vera	6A-01
0.200	+/-0.010	0.202	~	11	- 11
3.520	+/-0.010	3.522	~	Mic	GA-10
0.687	+0.010/-0.000	0.690	×	Vein	10A0
R0.062	+/-0.010	R 0.062	1	R-6	ref.
Ø0.484	+0.005/-0.001	Ø 0.489	V	Vein	69-01

Measured by: 1.A Date: 11/06/30

Audited by: 202

Date: 11/06/30

Rev	Date	Change	Revised by	Approved
Α	06.04.24	New Issue P/O D3391-015/-025	KJ/JLM	•
В	06.06.19	Dwg revision update	KJ/JLM	
С	07.04.20	Ø0.208 dimension removed	KJ/JLM	
D	07.09.06	0.400 dimension removed	KJ/JLM	
E	07.11.23	Dwg Rev. updated	KJ/EC/DD	
F	09.04.27	Dimensions updated per Rev H and NCR09-028	KJ/JLM	
G	09.11.16	Dimension 0.200 removed	KJ	
Н	11.06.21	Dimension 44.995 removed	KJ	

## **Dart Aerospace Ltd WORK ORDER CHANGES** W/O: DATE STEP PROCEDURE CHANGE Bv Date Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_ Date: \_\_\_\_ WORK ORDER NON-CONFORMANCE (NCR) NCR: **Corrective Action** Section B **Description of NC** Verification **Approval** Approval **STEP** DATE Sign & Initial **Action Description** - Section A Section C Chief Ena QC Inspector Date Chief Eng Chief Eng